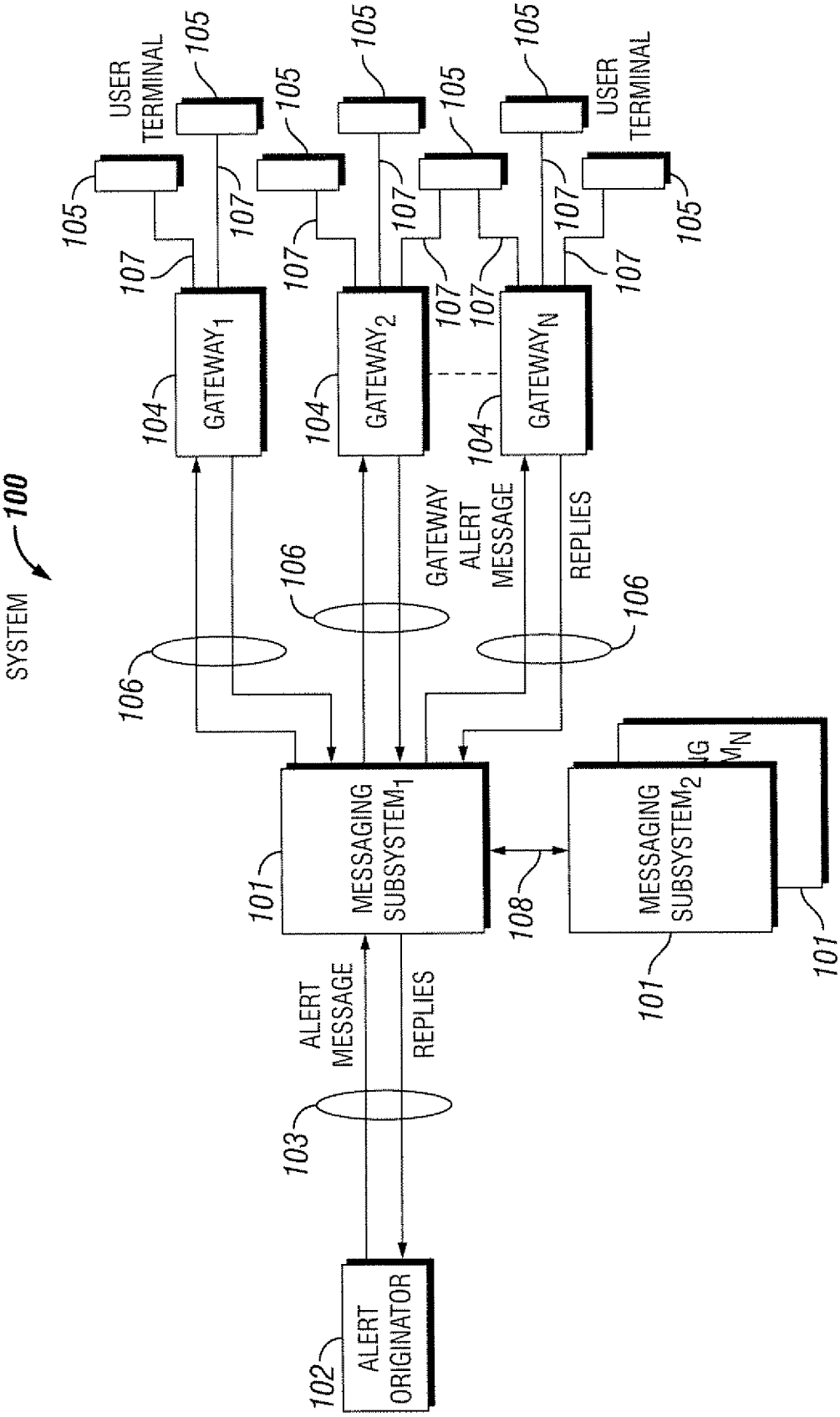

SYSTEM
100
USER TERMINAL
105
107
GATEWAY1
GATEWAY2
GATEWAYN
104
106
GATEWAY ALERT MESSAGE
REPLIES
MESSAGING SUBSYSTEM1
MESSAGING SUBSYSTEM2
101
108
ALERT MESSAGE
REPLIES
103
ALERT ORIGINATOR
102

FIG. 1

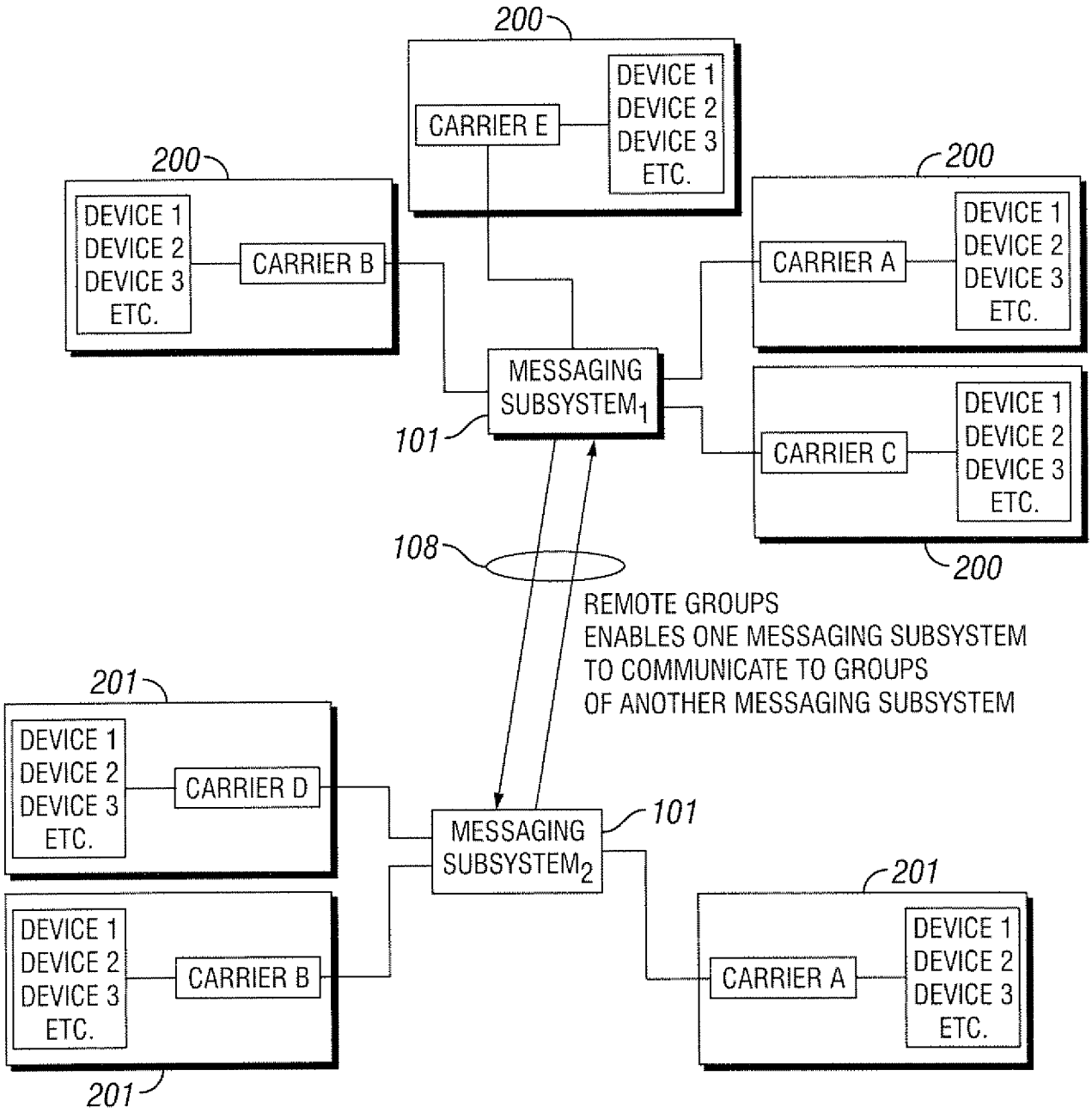

200
CARRIER E
DEVICE 1
DEVICE 2
DEVICE 3
ETC.
200
DEVICE 1
DEVICE 2
DEVICE 3
ETC.
CARRIER B
200
CARRIER A
DEVICE 1
DEVICE 2
DEVICE 3
ETC.
MESSAGING
SUBSYSTEM1
101
CARRIER C
DEVICE 1
DEVICE 2
DEVICE 3
ETC.
200
108
REMOTE GROUPS
ENABLES ONE MESSAGING SUBSYSTEM
TO COMMUNICATE TO GROUPS
OF ANOTHER MESSAGING SUBSYSTEM
201
DEVICE 1
DEVICE 2
DEVICE 3
ETC.
CARRIER D
MESSAGING
SUBSYSTEM2
101
201
DEVICE 1
DEVICE 2
DEVICE 3
ETC.
CARRIER A
DEVICE 1
DEVICE 2
DEVICE 3
ETC.
DEVICE 1
DEVICE 2
DEVICE 3
ETC.
CARRIER B
201

FIG. 2

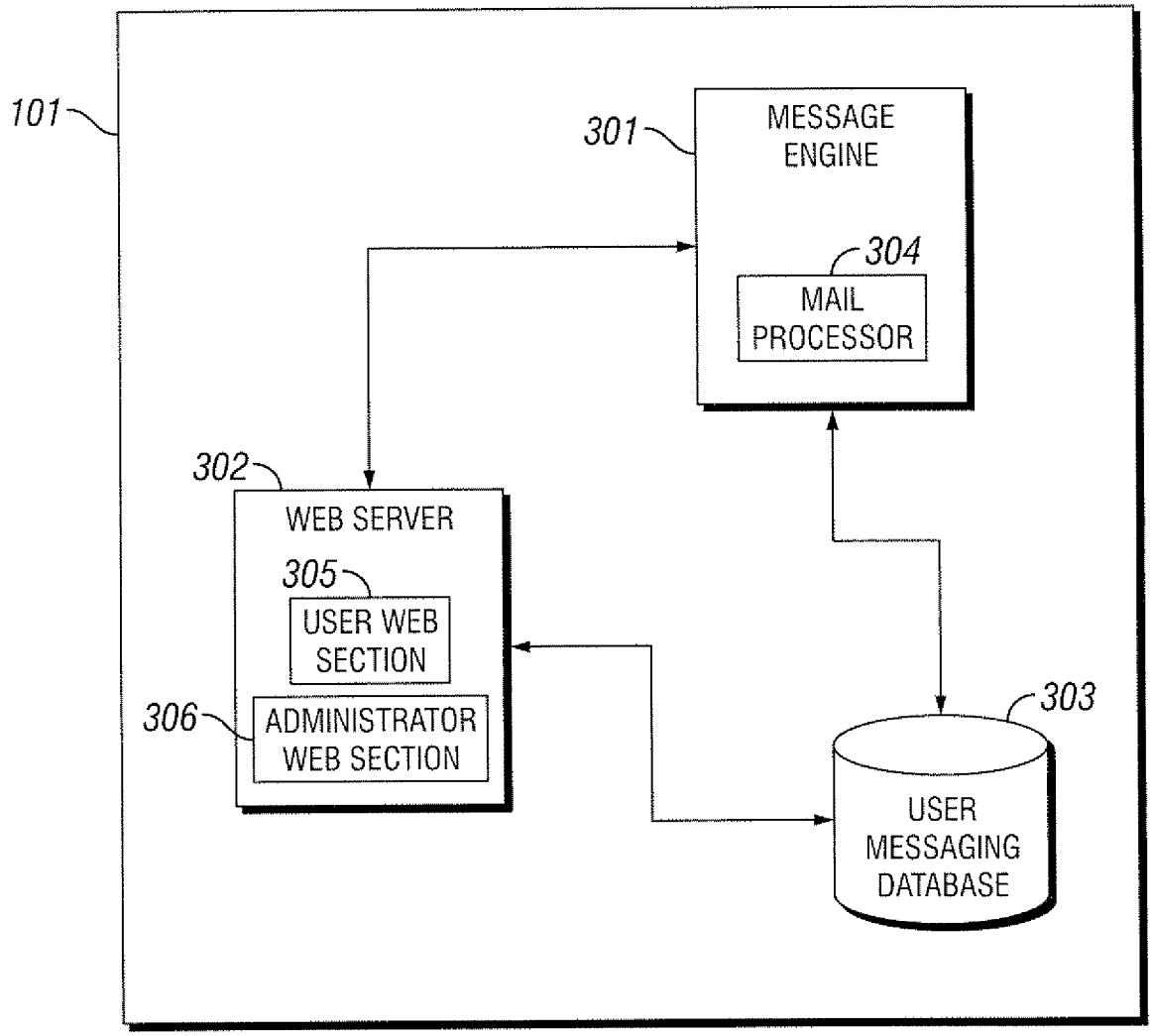

101
301
MESSAGE ENGINE
304
MAIL PROCESSOR
302
WEB SERVER
305
USER WEB SECTION
306
ADMINISTRATOR WEB SECTION
303
USER MESSAGING DATABASE

FIG. 3

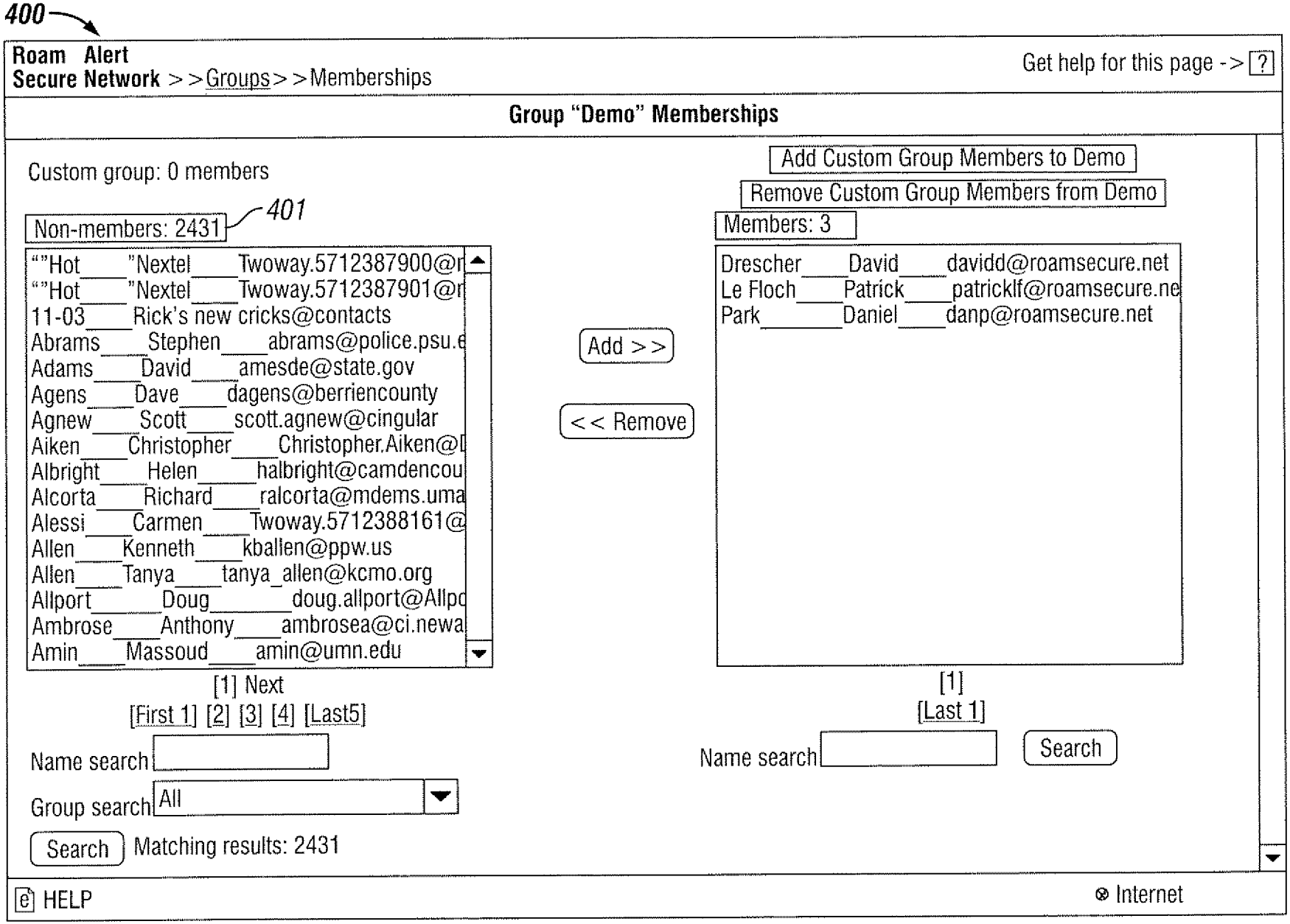

400
Roam Alert
Secure Network >>Groups>>Memberships
Get help for this page -> ?
Group "Demo" Memberships
Custom group: 0 members
Add Custom Group Members to Demo
Remove Custom Group Members from Demo
401
Non-members: 2431
Members: 3
""Hot "Nextel Twoway.5712387900@r
""Hot "Nextel Twoway.5712387901@r
11-03 Rick's new cricks@contacts
Abrams Stephen abrams@police.psu.e
Adams David amesde@state.gov
Agens Dave dagens@berriencounty
Agnew Scott scott.agnew@cingular
Aiken Christopher Christopher.Aiken@
Albright Helen halbright@camdencou
Alcorta Richard ralcorta@mdems.uma
Alessi Carmen Twoway.5712388161@
Allen Kenneth kballen@ppw.us
Allen Tanya tanya_allen@kcmo.org
Allport Doug doug.allport@Allpo
Ambrose Anthony ambrosea@ci.newa
Amin Massoud amin@umn.edu
Add >>
<< Remove
Drescher David davidd@roamsecure.net
Le Floch Patrick patricklf@roamsecure.ne
Park Daniel danp@roamsecure.net
[1] Next
[First 1] [2] [3] [4] [Last5]
[1]
[Last 1]
Name search
Name search
Search
Group search All
Search Matching results: 2431
HELP
Internet

FIG. 4

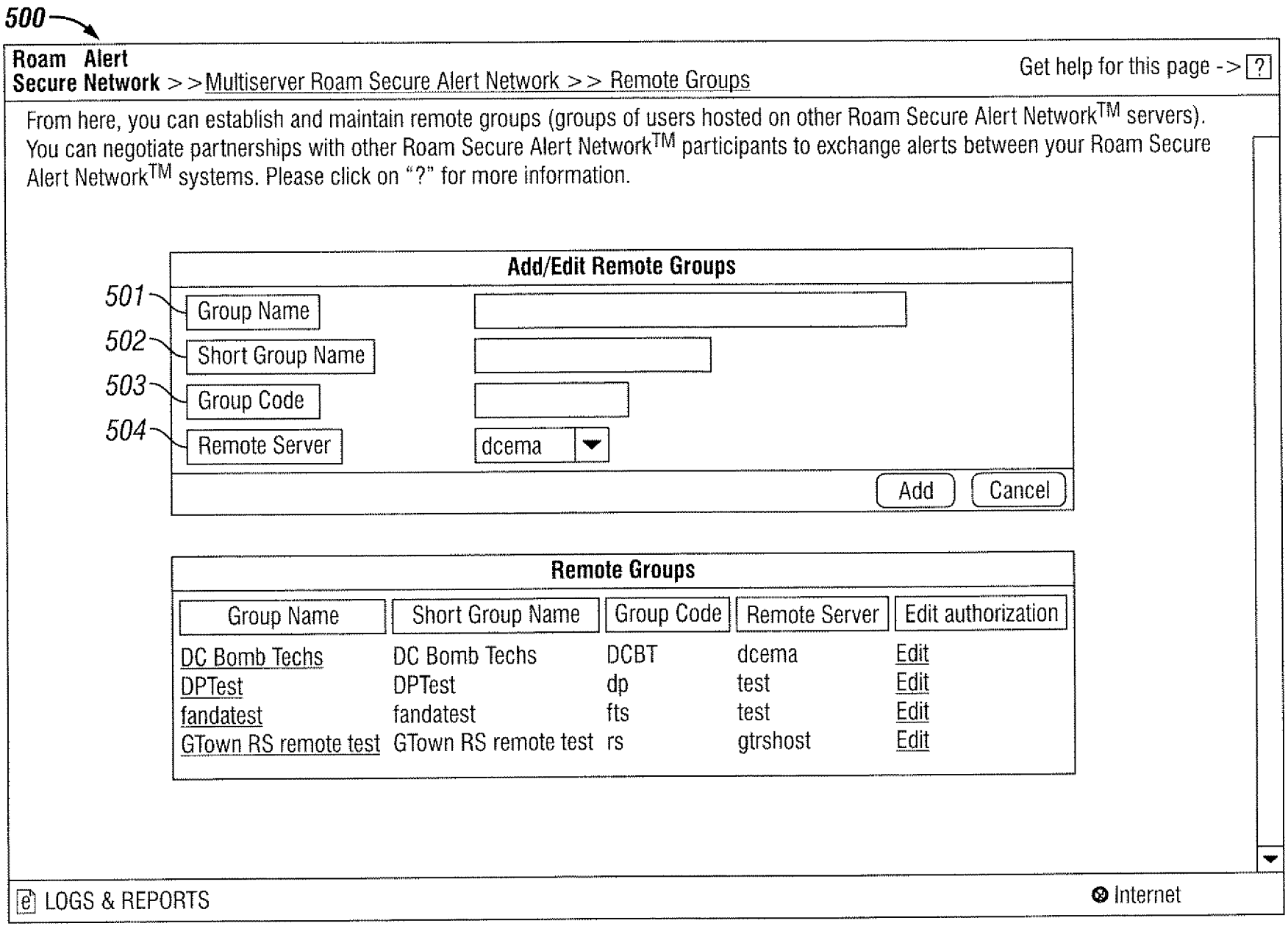

500
Roam Alert
Secure Network >>Multiserver Roam Secure Alert Network >> Remote Groups
Get help for this page -> ?
From here, you can establish and maintain remote groups (groups of users hosted on other Roam Secure Alert Network™ servers). You can negotiate partnerships with other Roam Secure Alert Network™ participants to exchange alerts between your Roam Secure Alert Network™ systems. Please click on "?" for more information.
Add/Edit Remote Groups
501
Group Name
502
Short Group Name
503
Group Code
504
Remote Server
dcema
Add
Cancel
Remote Groups
Group Name
Short Group Name
Group Code
Remote Server
Edit authorization
DC Bomb Techs
DC Bomb Techs
DCBT
dcema
Edit
DPTest
DPTest
dp
test
Edit
fandatest
fandatest
fts
test
Edit
GTown RS remote test
GTown RS remote test
rs
gtrshost
Edit
LOGS & REPORTS
Internet

FIG. 5

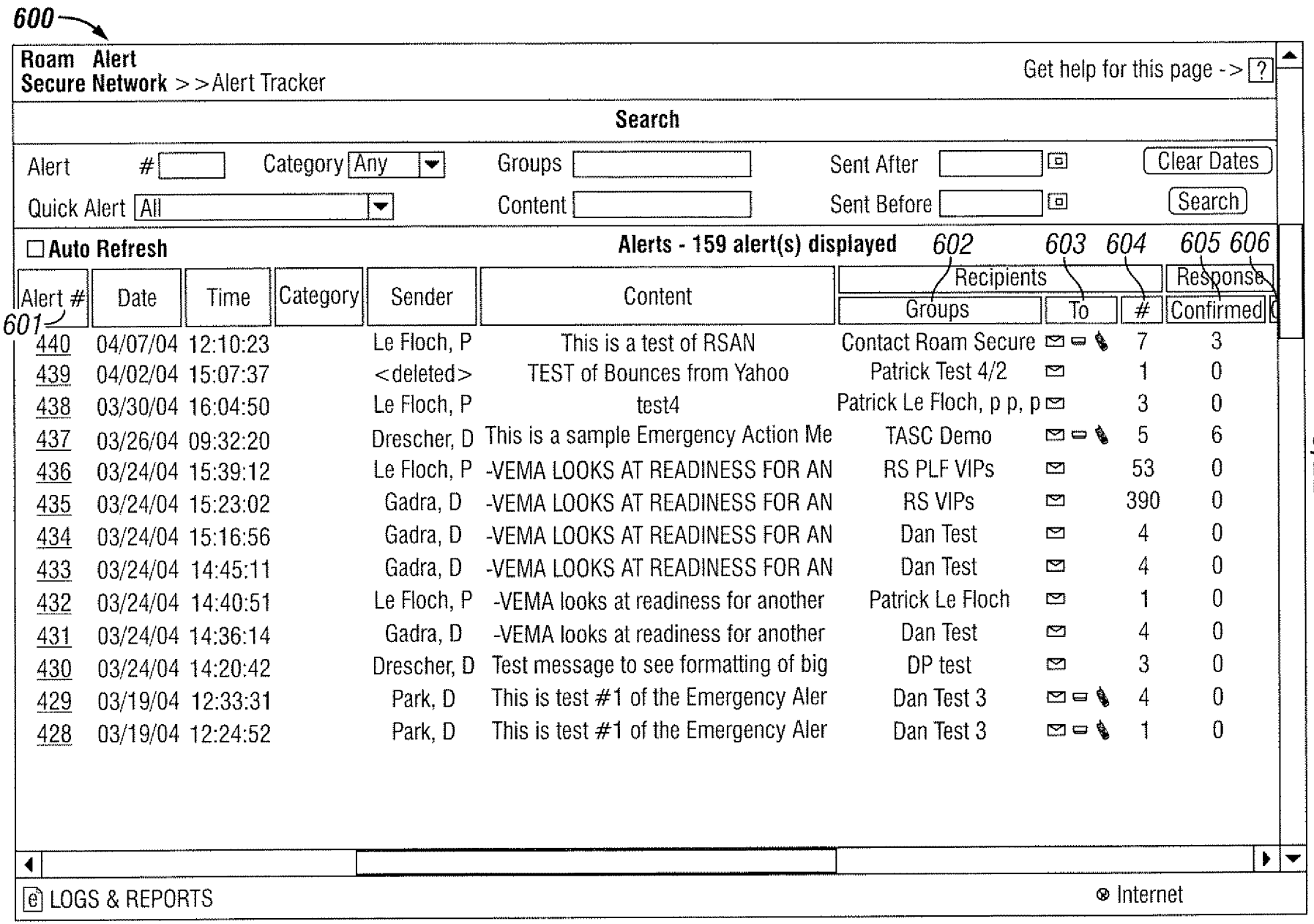

600
Roam Alert
Secure Network >>Alert Tracker
Get help for this page -> ?
Search
Alert # Category Any Groups Sent After Clear Dates
Quick Alert All Content Sent Before Search
Auto Refresh
Alerts - 159 alert(s) displayed
602 603 604 605 606
601
Alert # Date Time Category Sender Content Recipients Response
Groups To # Confirmed
440 04/07/04 12:10:23 Le Floch, P This is a test of RSAN Contact Roam Secure 7 3
439 04/02/04 15:07:37 <deleted> TEST of Bounces from Yahoo Patrick Test 4/2 1 0
438 03/30/04 16:04:50 Le Floch, P test4 Patrick Le Floch, p p, p 3 0
437 03/26/04 09:32:20 Drescher, D This is a sample Emergency Action Me TASC Demo 5 6
436 03/24/04 15:39:12 Le Floch, P -VEMA LOOKS AT READINESS FOR AN RS PLF VIPs 53 0
435 03/24/04 15:23:02 Gadra, D -VEMA LOOKS AT READINESS FOR AN RS VIPs 390 0
434 03/24/04 15:16:56 Gadra, D -VEMA LOOKS AT READINESS FOR AN Dan Test 4 0
433 03/24/04 14:45:11 Gadra, D -VEMA LOOKS AT READINESS FOR AN Dan Test 4 0
432 03/24/04 14:40:51 Le Floch, P -VEMA looks at readiness for another Patrick Le Floch 1 0
431 03/24/04 14:36:14 Gadra, D -VEMA looks at readiness for another Dan Test 4 0
430 03/24/04 14:20:42 Drescher, D Test message to see formatting of big DP test 3 0
429 03/19/04 12:33:31 Park, D This is test #1 of the Emergency Aler Dan Test 3 4 0
428 03/19/04 12:24:52 Park, D This is test #1 of the Emergency Aler Dan Test 3 1 0
LOGS & REPORTS
Internet

FIG. 6

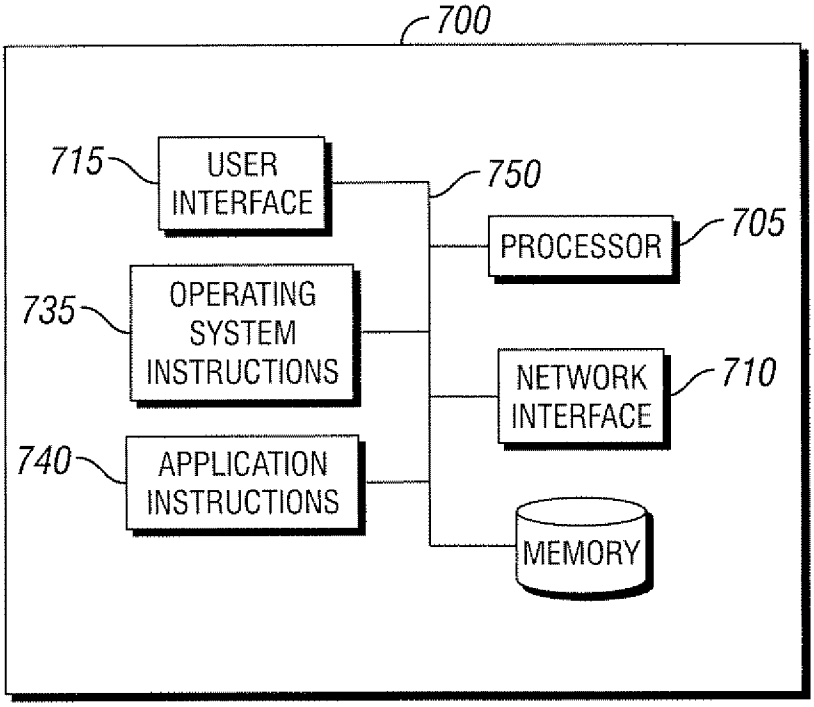

700
715
USER INTERFACE
750
PROCESSOR
705
735
OPERATING SYSTEM INSTRUCTIONS
NETWORK INTERFACE
710
740
APPLICATION INSTRUCTIONS
MEMORY

FIG. 7

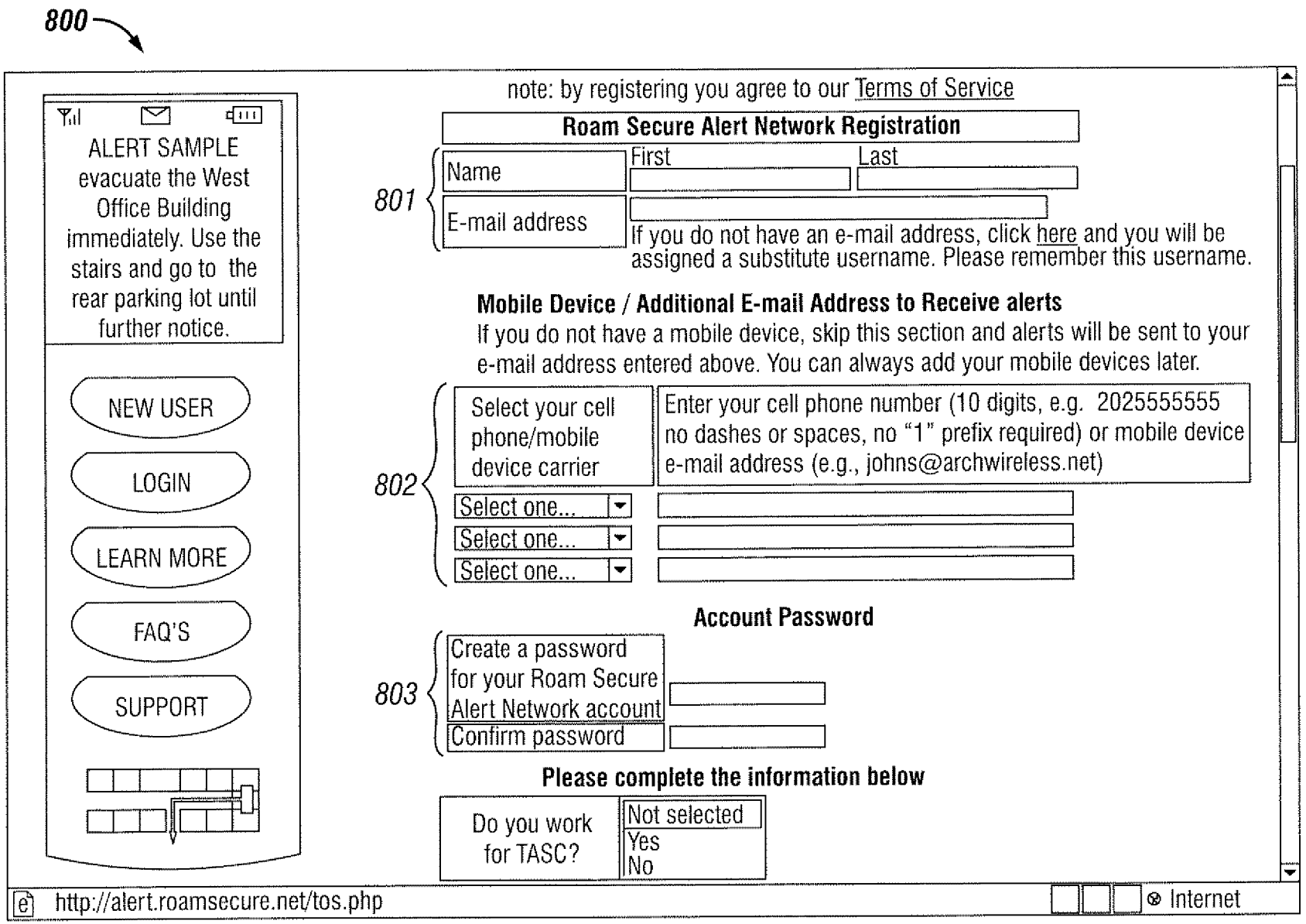

800
ALERT SAMPLE evacuate the West Office Building immediately. Use the stairs and go to the rear parking lot until further notice.
NEW USER
LOGIN
LEARN MORE
FAQ'S
SUPPORT
note: by registering you agree to our Terms of Service
Roam Secure Alert Network Registration
801
Name
First
Last
E-mail address
If you do not have an e-mail address, click here and you will be assigned a substitute username. Please remember this username.
Mobile Device / Additional E-mail Address to Receive alerts
If you do not have a mobile device, skip this section and alerts will be sent to your e-mail address entered above. You can always add your mobile devices later.
802
Select your cell phone/mobile device carrier
Enter your cell phone number (10 digits, e.g. 2025555555 no dashes or spaces, no "1" prefix required) or mobile device e-mail address (e.g., johns@archwireless.net)
Select one...
Select one...
Select one...
Account Password
803
Create a password for your Roam Secure Alert Network account
Confirm password
Please complete the information below
Do you work for TASC?
Not selected
Yes
No
http://alert.roamsecure.net/tos.php
Internet

FIG. 8A

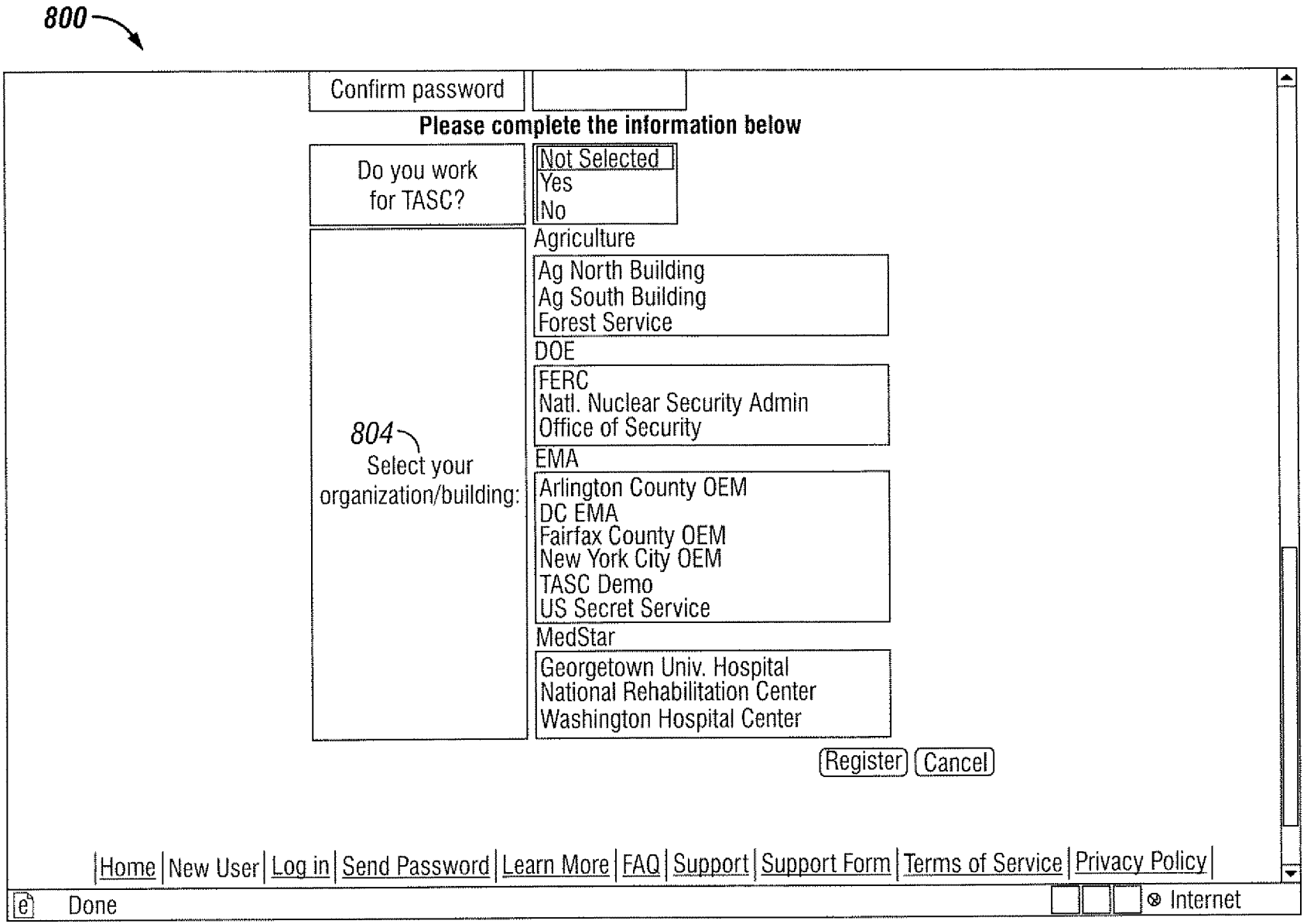

800
Confirm password
Please complete the information below
Do you work for TASC?
Not Selected
Yes
No
804
Select your organization/building:
Agriculture
Ag North Building
Ag South Building
Forest Service
DOE
FERC
Natl. Nuclear Security Admin
Office of Security
EMA
Arlington County OEM
DC EMA
Fairfax County OEM
New York City OEM
TASC Demo
US Secret Service
MedStar
Georgetown Univ. Hospital
National Rehabilitation Center
Washington Hospital Center
Register
Cancel
Home
New User
Log in
Send Password
Learn More
FAQ
Support
Support Form
Terms of Service
Privacy Policy
Done
Internet

FIG. 8B

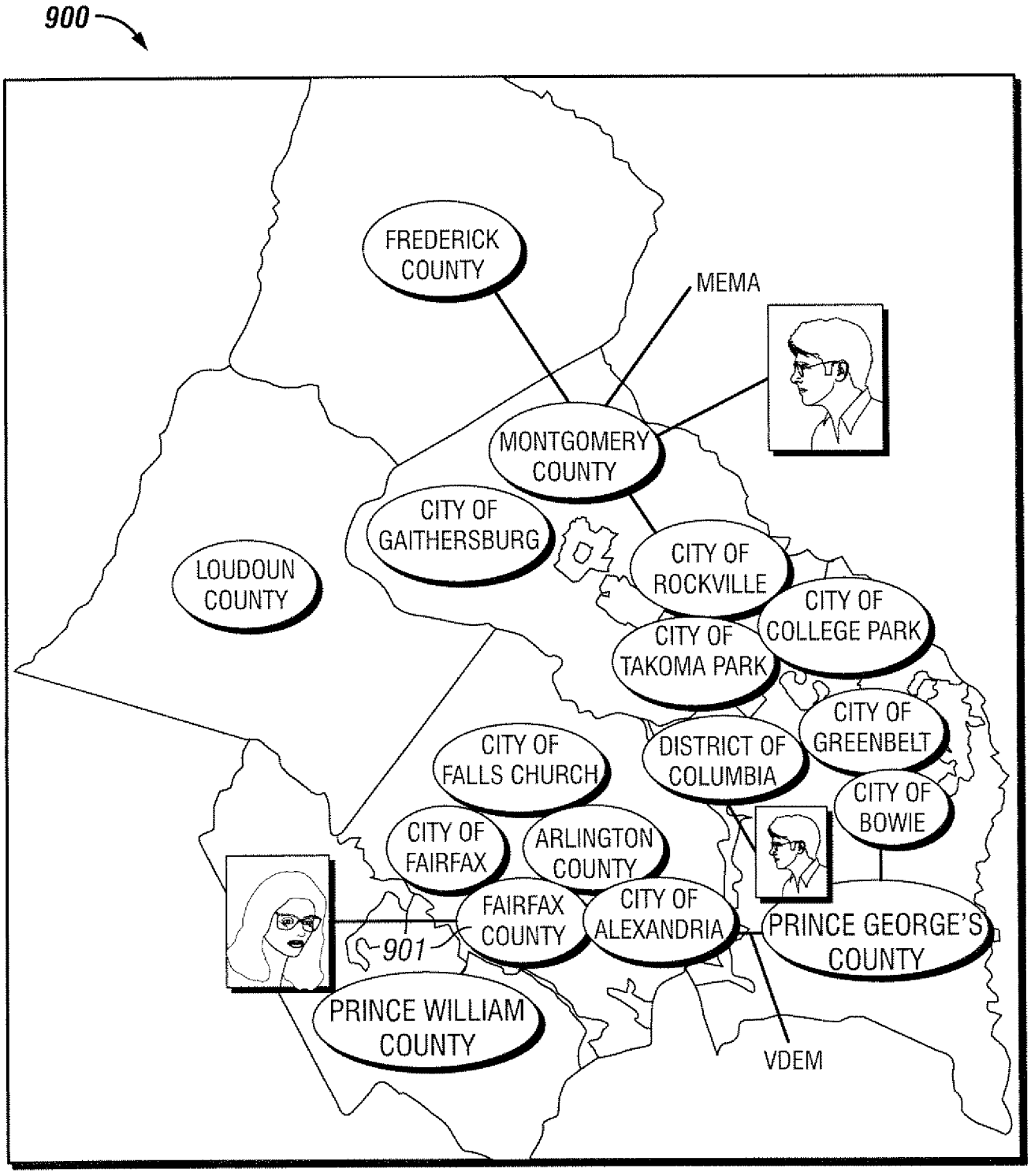

900
FREDERICK COUNTY
MEMA
MONTGOMERY COUNTY
CITY OF GAITHERSBURG
CITY OF ROCKVILLE
LOUDOUN COUNTY
CITY OF COLLEGE PARK
CITY OF TAKOMA PARK
CITY OF GREENBELT
DISTRICT OF COLUMBIA
CITY OF FALLS CHURCH
CITY OF BOWIE
CITY OF FAIRFAX
ARLINGTON COUNTY
FAIRFAX COUNTY
CITY OF ALEXANDRIA
PRINCE GEORGE'S COUNTY
901
PRINCE WILLIAM COUNTY
VDEM

FIG. 9

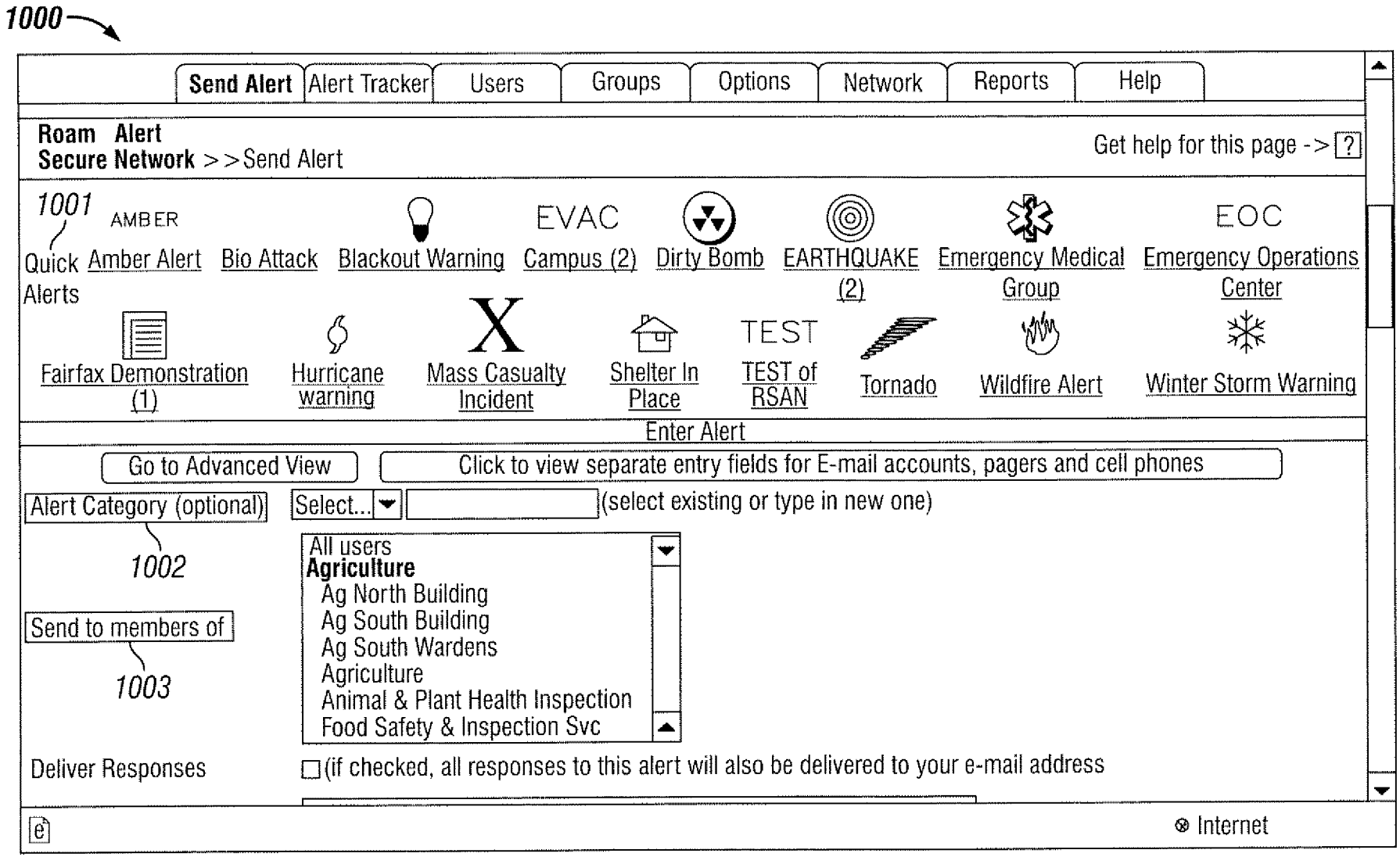

1000
Send Alert
Alert Tracker
Users
Groups
Options
Network
Reports
Help
Roam Alert
Secure Network >>Send Alert
Get help for this page -> ?
1001
Quick Alerts
AMBER
Amber Alert
Bio Attack
Blackout Warning
EVAC
Campus (2)
Dirty Bomb
EARTHQUAKE (2)
Emergency Medical Group
EOC
Emergency Operations Center
Fairfax Demonstration (1)
Hurricane warning
Mass Casualty Incident
Shelter In Place
TEST
TEST of RSAN
Tornado
Wildfire Alert
Winter Storm Warning
Enter Alert
Go to Advanced View
Click to view separate entry fields for E-mail accounts, pagers and cell phones
Alert Category (optional)
Select...
(select existing or type in new one)
1002
Send to members of
1003
All users
Agriculture
Ag North Building
Ag South Building
Ag South Wardens
Agriculture
Animal & Plant Health Inspection
Food Safety & Inspection Svc
Deliver Responses
(if checked, all responses to this alert will also be delivered to your e-mail address
Internet
11/22

FIG. 10

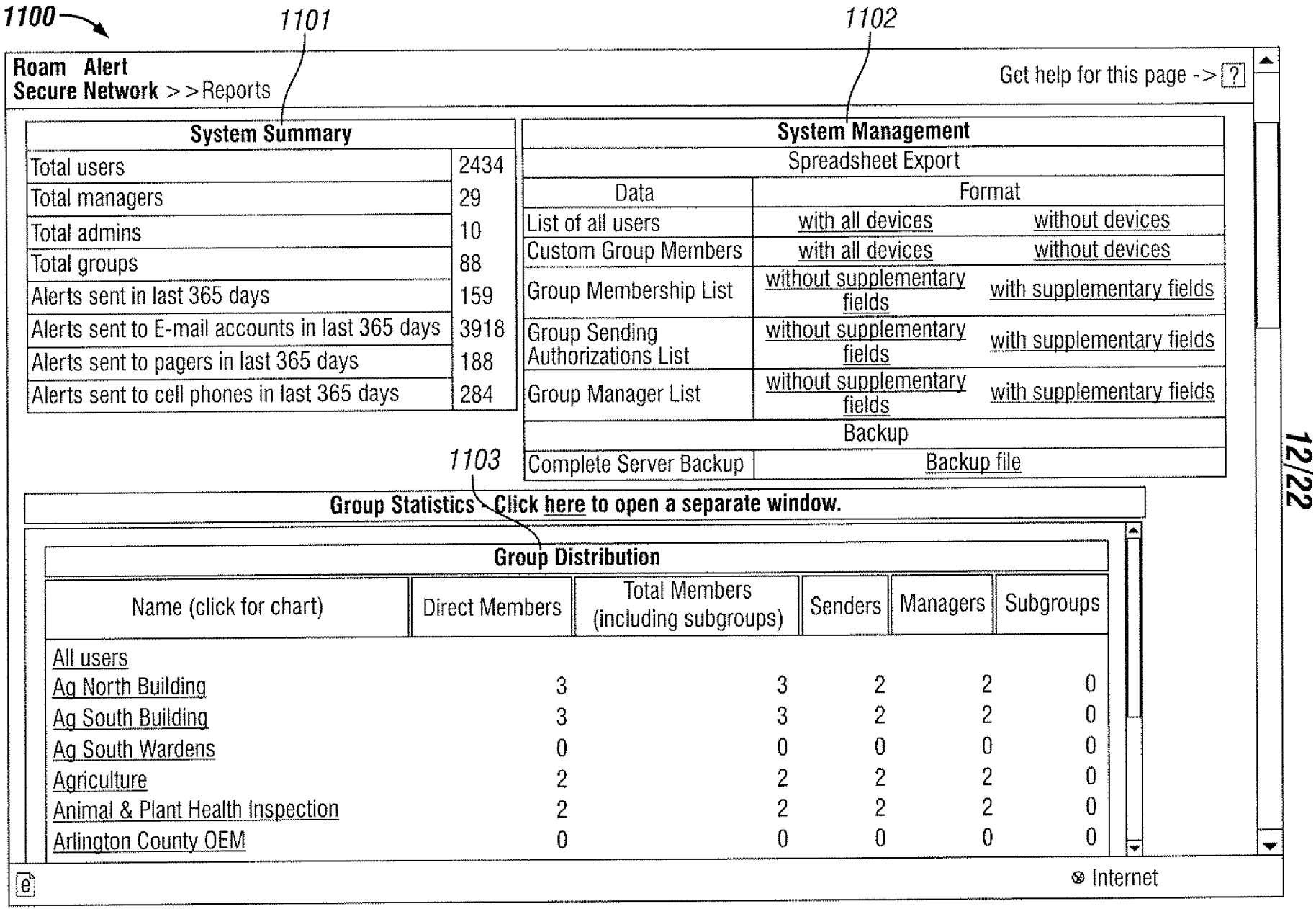

1100
1101
1102
Roam Alert
Secure Network >>Reports
Get help for this page -> ?
System Summary
Total users 2434
Total managers 29
Total admins 10
Total groups 88
Alerts sent in last 365 days 159
Alerts sent to E-mail accounts in last 365 days 3918
Alerts sent to pagers in last 365 days 188
Alerts sent to cell phones in last 365 days 284
System Management
Spreadsheet Export
Data
Format
List of all users
with all devices
without devices
Custom Group Members
with all devices
without devices
Group Membership List
without supplementary fields
with supplementary fields
Group Sending Authorizations List
without supplementary fields
with supplementary fields
Group Manager List
without supplementary fields
with supplementary fields
Backup
Complete Server Backup
Backup file
1103
Group Statistics - Click here to open a separate window.
Group Distribution
Name (click for chart)
Direct Members
Total Members (including subgroups)
Senders
Managers
Subgroups
All users
Ag North Building 3 3 2 2 0
Ag South Building 3 3 2 2 0
Ag South Wardens 0 0 0 0 0
Agriculture 2 2 2 2 0
Animal & Plant Health Inspection 2 2 2 2 0
Arlington County OEM 0 0 0 0 0
Internet
12/22

FIG. 11A

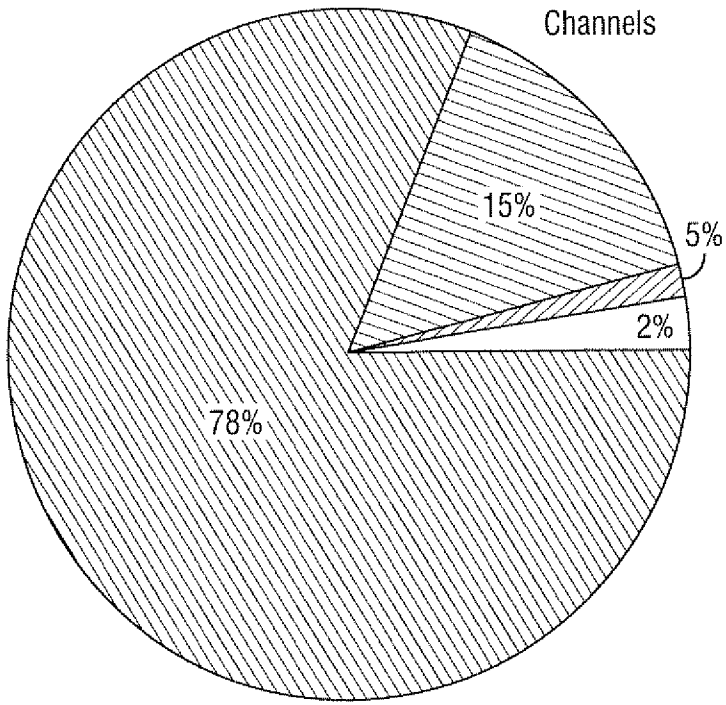
1100

Delivery Channel Statistics - Click here to open a separate window.

1104

Carrier Distribution

All Delivery Channels



Arch Wireless	29	1%
AT&T	14	1%
BlackBerry Cingular	4	0%
BlackBerry Verizon	1	0%
Cingular	20	1%
E-mail account	2068	78%
Metrocall	27	1%
Metrocall 2-way	2	0%
Mobile message	6	0%
my2way.com	1	0%
Nextel	398	15%
Nextel w/2way msging	1	0%
Other carrier	10	0%
Pagenet/Arch	9	0%
PEPCO	1	0%
Rinkers	1	0%
Skytel	4	0%
Sprint	7	0%
T-Mobile	4	0%
Verizon	38	1%
Voicestream	1	0%

Supplementary Fields - Click here to open a separate window.

FIG. 11b

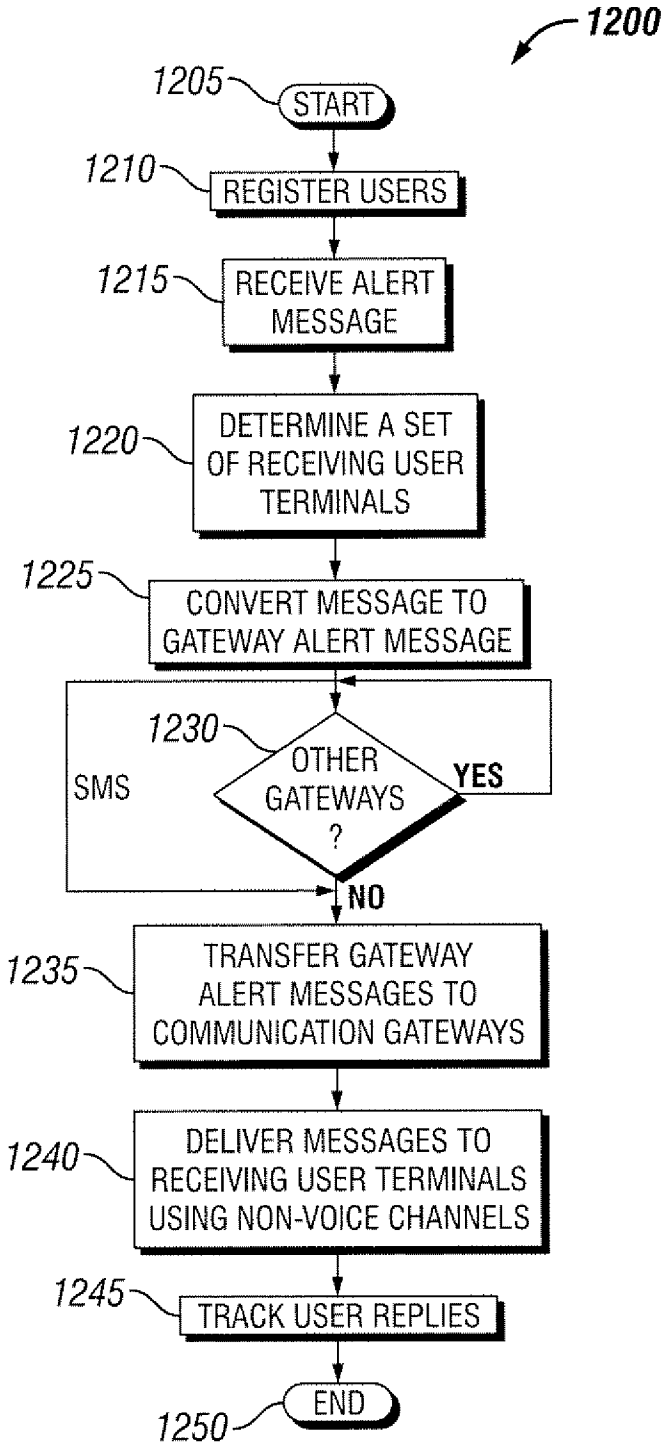

1200
1205
START
1210
REGISTER USERS
1215
RECEIVE ALERT MESSAGE
1220
DETERMINE A SET OF RECEIVING USER TERMINALS
1225
CONVERT MESSAGE TO GATEWAY ALERT MESSAGE
SMS
1230
OTHER GATEWAYS ?
YES
NO
1235
TRANSFER GATEWAY ALERT MESSAGES TO COMMUNICATION GATEWAYS
1240
DELIVER MESSAGES TO RECEIVING USER TERMINALS USING NON-VOICE CHANNELS
1245
TRACK USER REPLIES
1250
END

FIG. 12

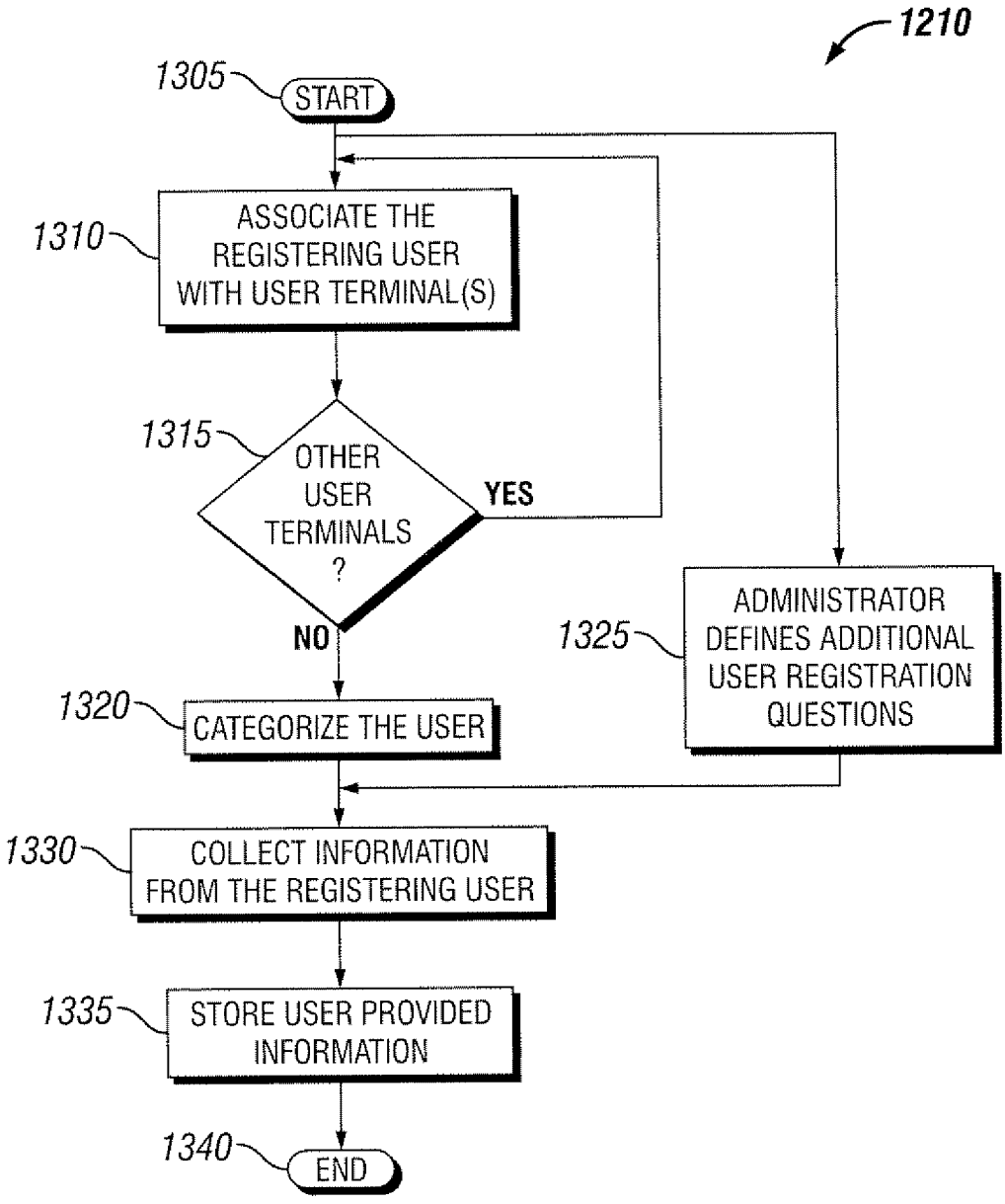

1210
1305
START
1310
ASSOCIATE THE REGISTERING USER WITH USER TERMINAL(S)
1315
OTHER USER TERMINALS ?
YES
NO
1320
CATEGORIZE THE USER
1325
ADMINISTRATOR DEFINES ADDITIONAL USER REGISTRATION QUESTIONS
1330
COLLECT INFORMATION FROM THE REGISTERING USER
1335
STORE USER PROVIDED INFORMATION
1340
END

FIG. 13

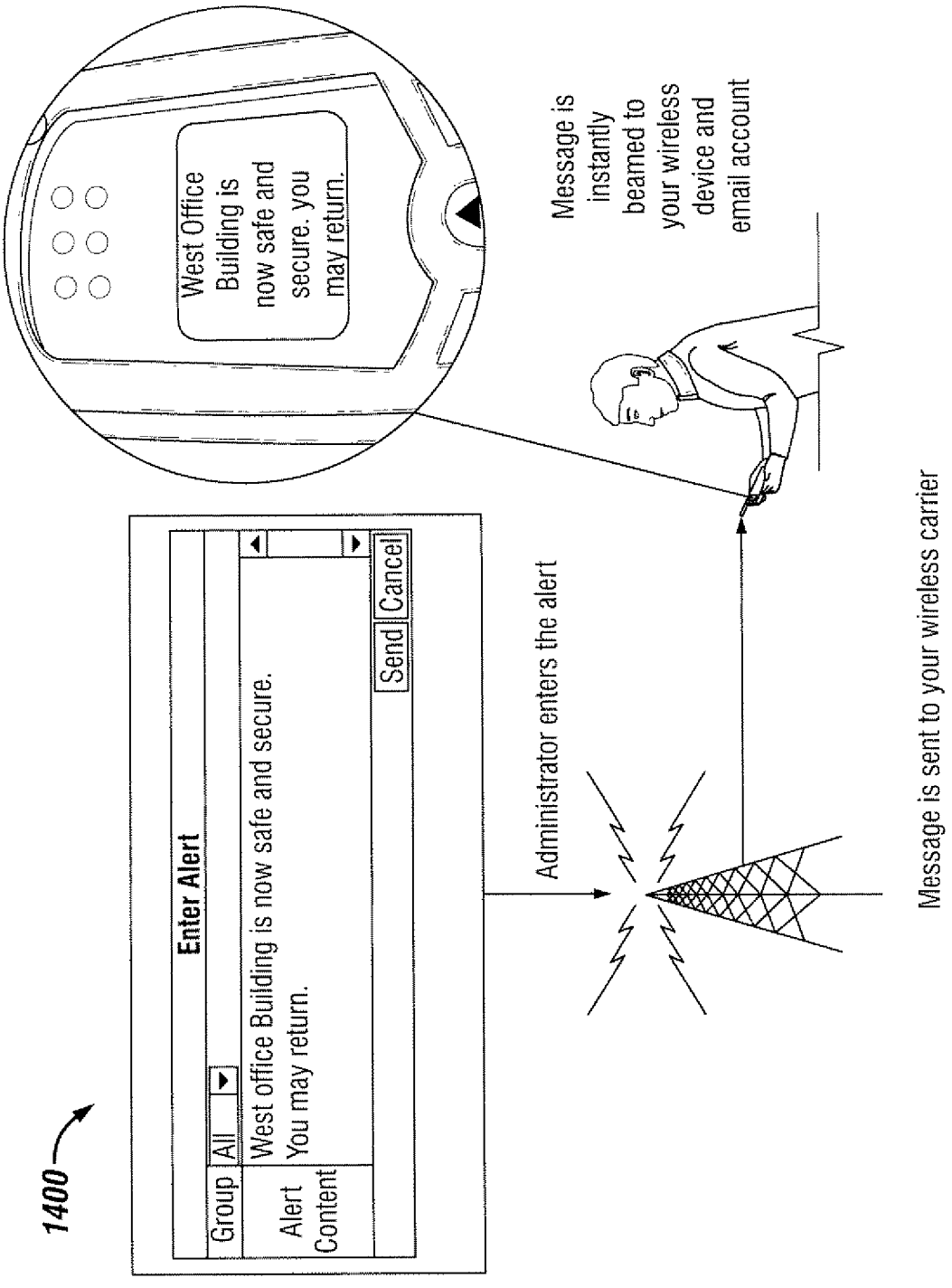

1400
Enter Alert
Group
All
Alert Content
West office Building is now safe and secure.
You may return.
Send
Cancel
Administrator enters the alert
Message is sent to your wireless carrier
Message is instantly beamed to your wireless device and email account
West Office Building is now safe and secure. you may return.

FIG. 14

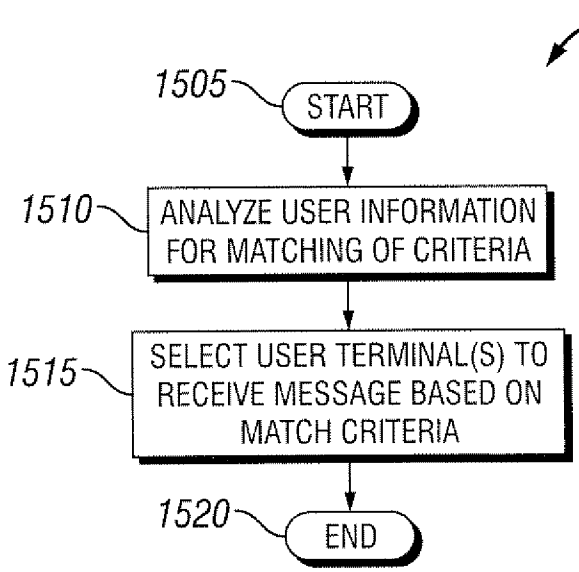

1220
1505
START
1510
ANALYZE USER INFORMATION FOR MATCHING OF CRITERIA
1515
SELECT USER TERMINAL(S) TO RECEIVE MESSAGE BASED ON MATCH CRITERIA
1520
END

FIG. 15

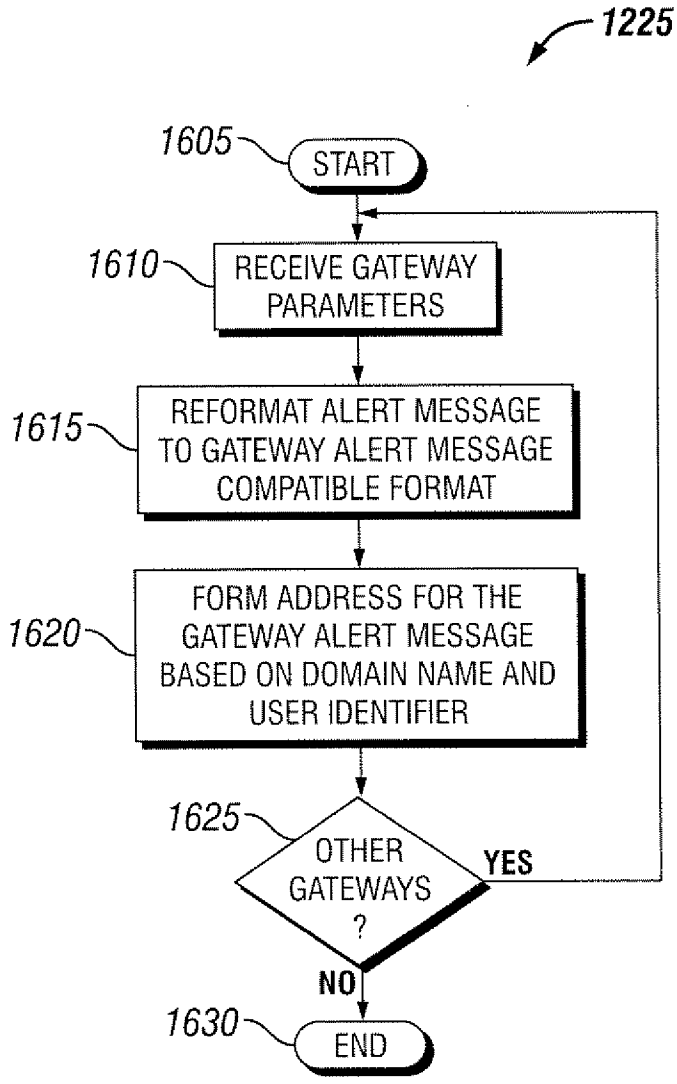
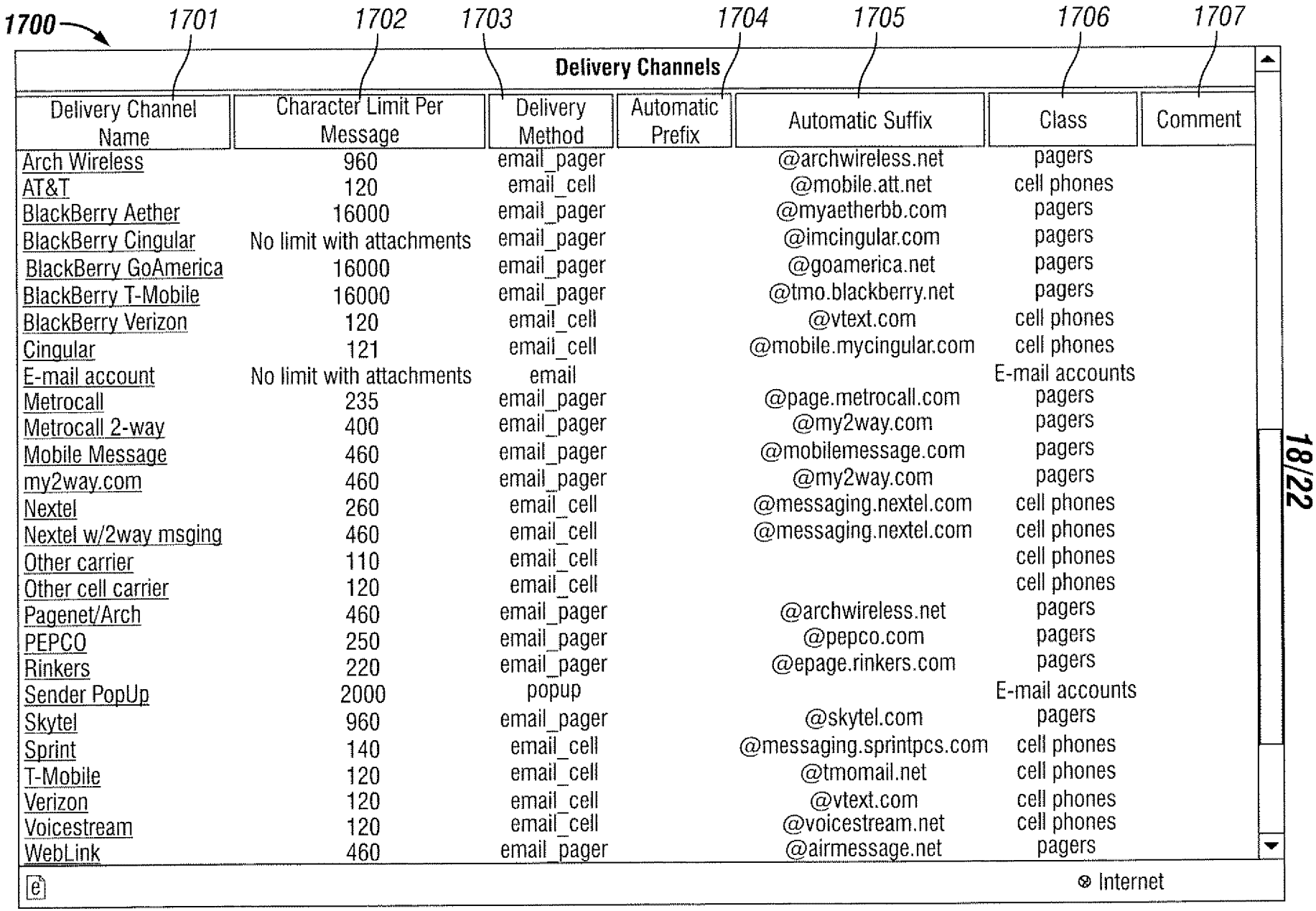

1225
1605
START
1610
RECEIVE GATEWAY PARAMETERS
1615
REFORMAT ALERT MESSAGE TO GATEWAY ALERT MESSAGE COMPATIBLE FORMAT
1620
FORM ADDRESS FOR THE GATEWAY ALERT MESSAGE BASED ON DOMAIN NAME AND USER IDENTIFIER
1625
OTHER GATEWAYS ?
YES
NO
1630
END

FIG. 16



Delivery Channel Name	Character Limit Per Message	Delivery Method	Automatic Prefix	Automatic Suffix	Class	Comment
Arch Wireless	960	email_pager		@archwireless.net	pagers	
AT&T	120	email_cell		@mobile.att.net	cell phones	
BlackBerry Aether	16000	email_pager		@myaetherbb.com	pagers	
BlackBerry Cingular	No limit with attachments	email_pager		@imcingular.com	pagers	
BlackBerry GoAmerica	16000	email_pager		@goamerica.net	pagers	
BlackBerry T-Mobile	16000	email_pager		@tmo.blackberry.net	pagers	
BlackBerry Verizon	120	email_cell		@vtext.com	cell phones	
Cingular	121	email_cell		@mobile.mycingular.com	cell phones	
E-mail account	No limit with attachments	email			E-mail accounts	
Metrocall	235	email_pager		@page.metrocall.com	pagers	
Metrocall 2-way	400	email_pager		@my2way.com	pagers	
Mobile Message	460	email_pager		@mobilemessage.com	pagers	
my2way.com	460	email_pager		@my2way.com	pagers	
Nextel	260	email_cell		@messaging.nextel.com	cell phones	
Nextel w/2way msging	460	email_cell		@messaging.nextel.com	cell phones	
Other carrier	110	email_cell			cell phones	
Other cell carrier	120	email_cell			cell phones	
Pagenet/Arch	460	email_pager		@archwireless.net	pagers	
PEPCO	250	email_pager		@pepco.com	pagers	
Rinkers	220	email_pager		@epage.rinkers.com	pagers	
Sender PopUp	2000	popup			E-mail accounts	
Skytel	960	email_pager		@skytel.com	pagers	
Sprint	140	email_cell		@messaging.sprintpcs.com	cell phones	
T-Mobile	120	email_cell		@tmomail.net	cell phones	
Verizon	120	email_cell		@vtext.com	cell phones	
Voicestream	120	email_cell		@voicestream.net	cell phones	
WebLink	460	email_pager		@airmessage.net	pagers	

18/22

FIG. 17

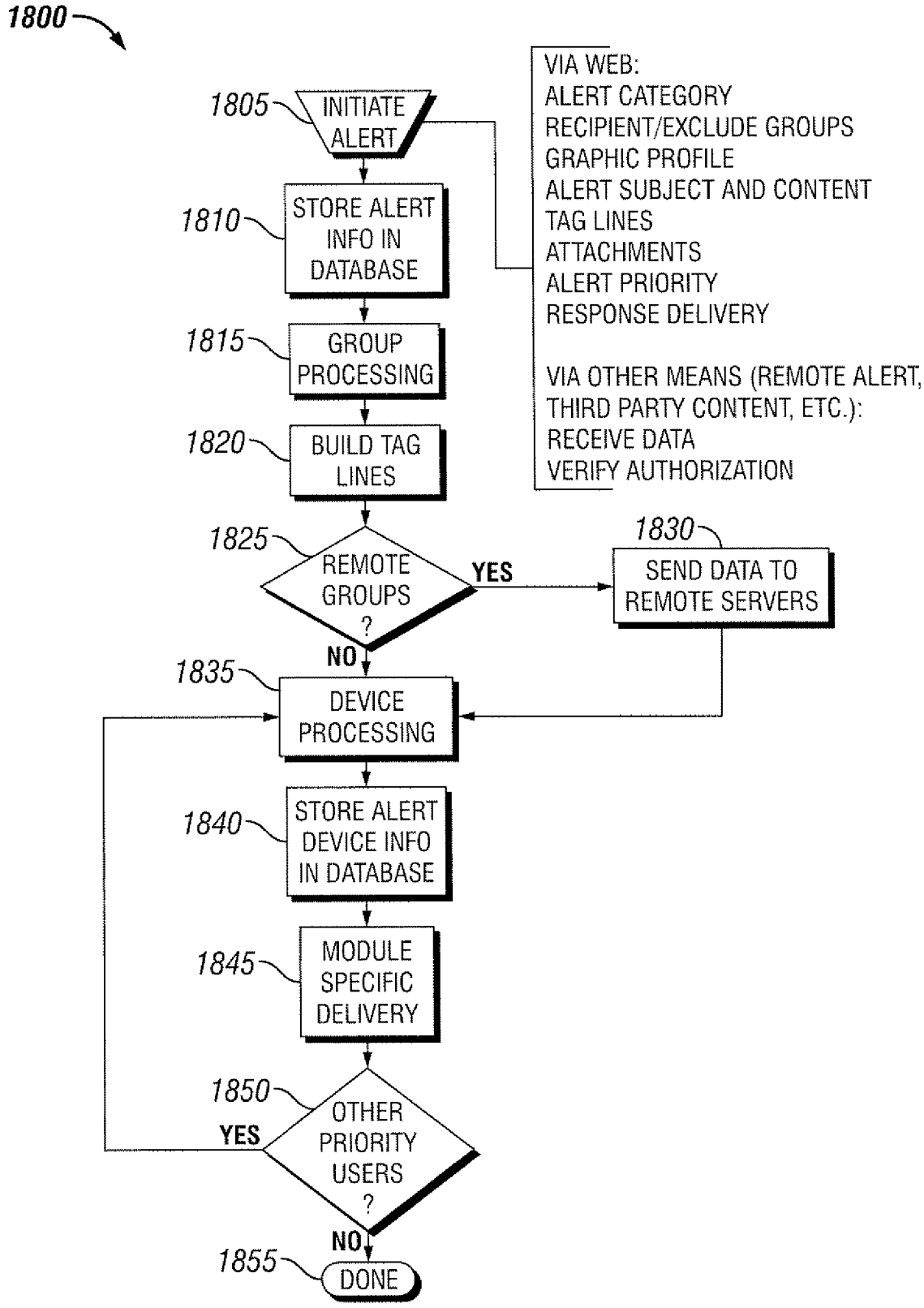

1800
1805
INITIATE ALERT
1810
STORE ALERT INFO IN DATABASE
1815
GROUP PROCESSING
1820
BUILD TAG LINES
1825
REMOTE GROUPS ?
YES
1830
SEND DATA TO REMOTE SERVERS
NO
1835
DEVICE PROCESSING
1840
STORE ALERT DEVICE INFO IN DATABASE
1845
MODULE SPECIFIC DELIVERY
1850
OTHER PRIORITY USERS ?
YES
NO
1855
DONE
VIA WEB:
ALERT CATEGORY
RECIPIENT/EXCLUDE GROUPS
GRAPHIC PROFILE
ALERT SUBJECT AND CONTENT
TAG LINES
ATTACHMENTS
ALERT PRIORITY
RESPONSE DELIVERY
VIA OTHER MEANS (REMOTE ALERT, THIRD PARTY CONTENT, ETC.):
RECEIVE DATA
VERIFY AUTHORIZATION

FIG. 18A

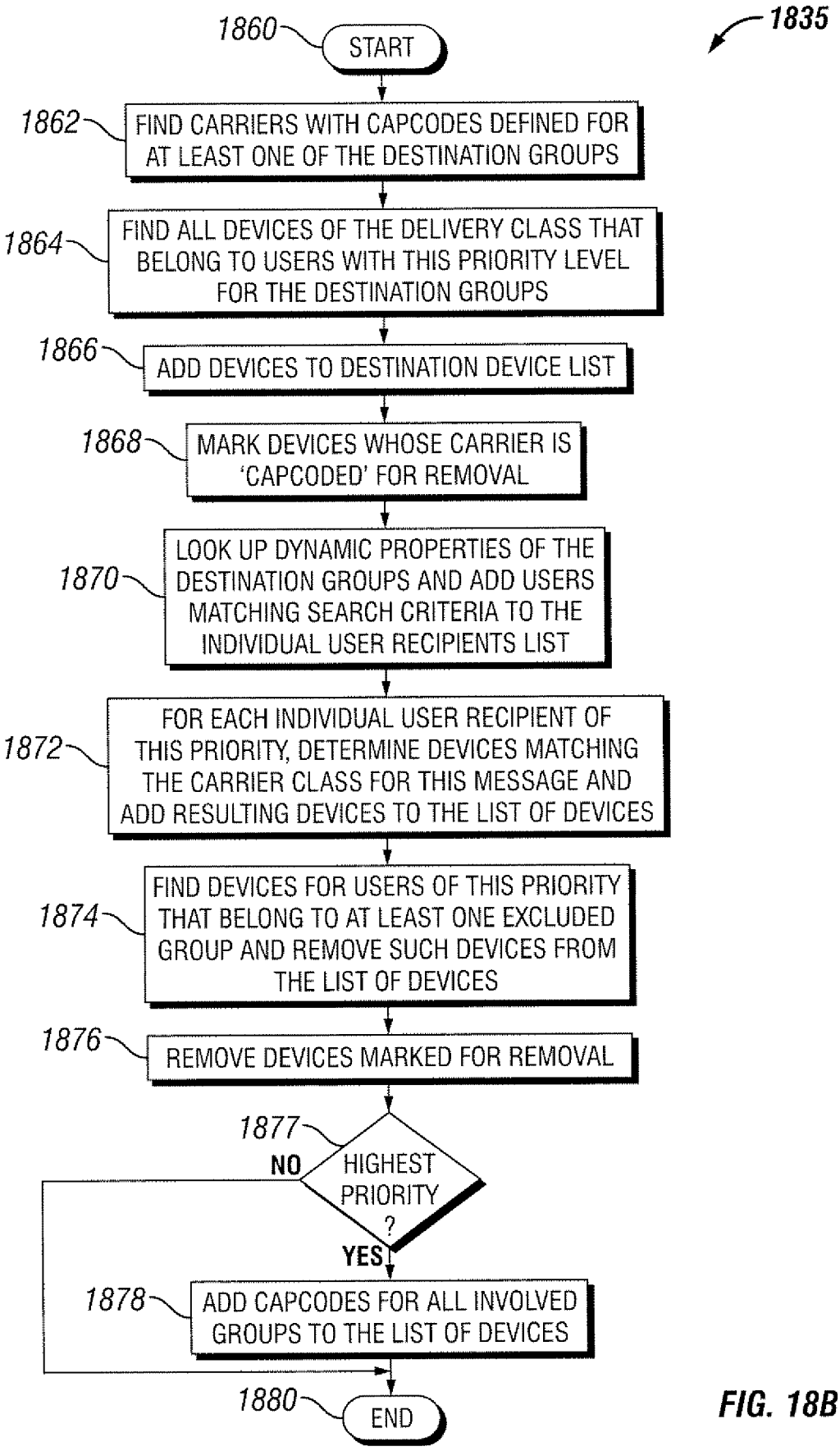

1835
1860
START
1862
FIND CARRIERS WITH CAPCODES DEFINED FOR AT LEAST ONE OF THE DESTINATION GROUPS
1864
FIND ALL DEVICES OF THE DELIVERY CLASS THAT BELONG TO USERS WITH THIS PRIORITY LEVEL FOR THE DESTINATION GROUPS
1866
ADD DEVICES TO DESTINATION DEVICE LIST
1868
MARK DEVICES WHOSE CARRIER IS 'CAPCODED' FOR REMOVAL
1870
LOOK UP DYNAMIC PROPERTIES OF THE DESTINATION GROUPS AND ADD USERS MATCHING SEARCH CRITERIA TO THE INDIVIDUAL USER RECIPIENTS LIST
1872
FOR EACH INDIVIDUAL USER RECIPIENT OF THIS PRIORITY, DETERMINE DEVICES MATCHING THE CARRIER CLASS FOR THIS MESSAGE AND ADD RESULTING DEVICES TO THE LIST OF DEVICES
1874
FIND DEVICES FOR USERS OF THIS PRIORITY THAT BELONG TO AT LEAST ONE EXCLUDED GROUP AND REMOVE SUCH DEVICES FROM THE LIST OF DEVICES
1876
REMOVE DEVICES MARKED FOR REMOVAL
1877
HIGHEST PRIORITY ?
NO
YES
1878
ADD CAPCODES FOR ALL INVOLVED GROUPS TO THE LIST OF DEVICES
1880
END

FIG. 18B

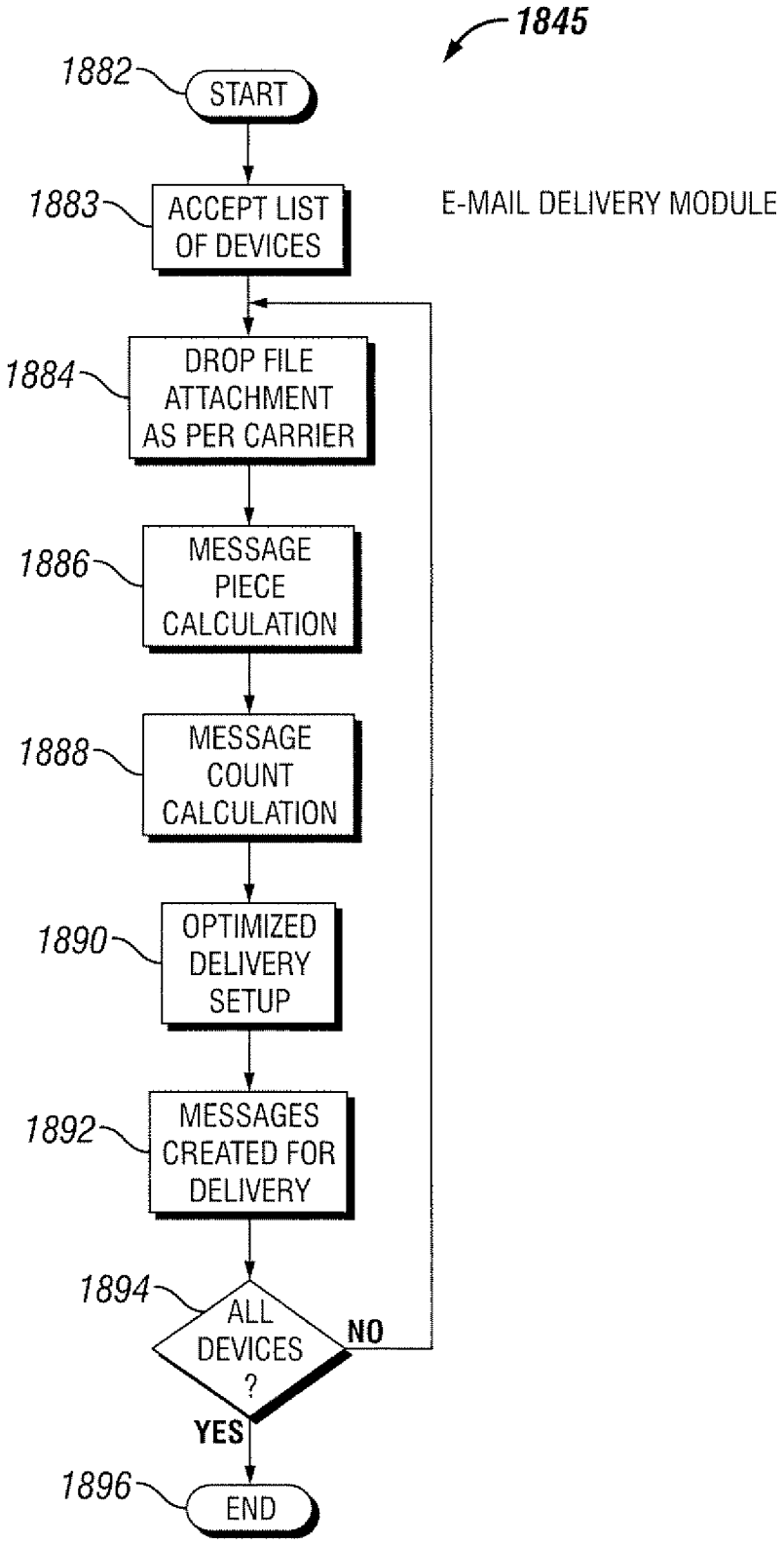

1845
E-MAIL DELIVERY MODULE
1882
START
1883
ACCEPT LIST OF DEVICES
1884
DROP FILE ATTACHMENT AS PER CARRIER
1886
MESSAGE PIECE CALCULATION
1888
MESSAGE COUNT CALCULATION
1890
OPTIMIZED DELIVERY SETUP
1892
MESSAGES CREATED FOR DELIVERY
1894
ALL DEVICES ?
NO
YES
1896
END

FIG. 18C

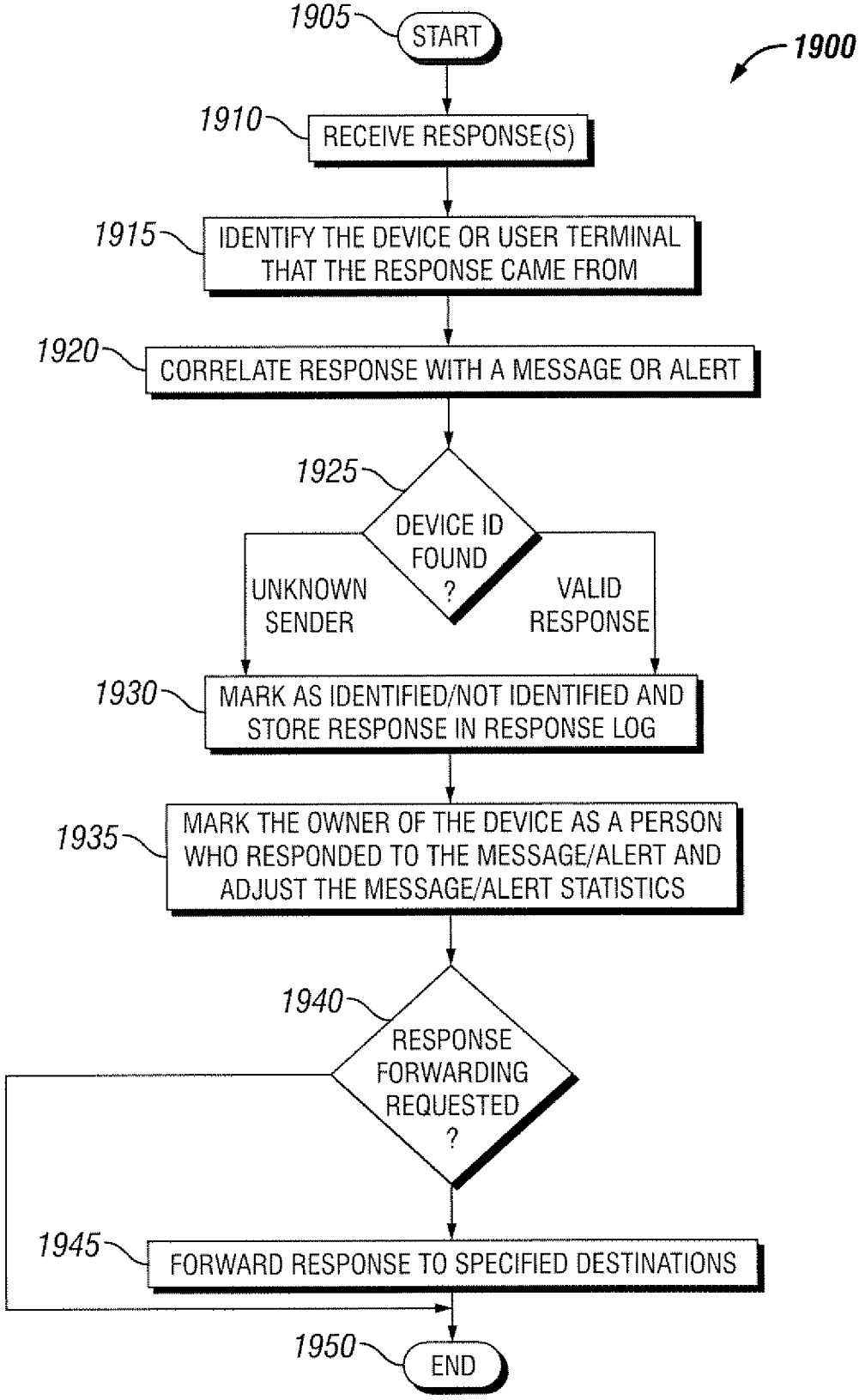

1900
1905
START
1910
RECEIVE RESPONSE(S)
1915
IDENTIFY THE DEVICE OR USER TERMINAL THAT THE RESPONSE CAME FROM
1920
CORRELATE RESPONSE WITH A MESSAGE OR ALERT
1925
DEVICE ID FOUND ?
UNKNOWN SENDER
VALID RESPONSE
1930
MARK AS IDENTIFIED/NOT IDENTIFIED AND STORE RESPONSE IN RESPONSE LOG
1935
MARK THE OWNER OF THE DEVICE AS A PERSON WHO RESPONDED TO THE MESSAGE/ALERT AND ADJUST THE MESSAGE/ALERT STATISTICS
1940
RESPONSE FORWARDING REQUESTED ?
1945
FORWARD RESPONSE TO SPECIFIED DESTINATIONS
1950
END

FIG. 19